

4-16-12

P of Compound Events

Compound Events - 2 or more different / separate events

Steps to find P of Compound Events:

- ① Find the P of each event you're looking for
- ② Multiply them (just like fractions)

$$\text{Ex: } P(\text{tossing H, spin R}) = \underbrace{\left(\frac{1}{2}\right)}_{P(H)} \times \underbrace{\left(\frac{1}{4}\right)}_{P(R)} = \boxed{\frac{1}{8}}$$

compound events

$$\text{Ex: } P(\text{Landing on 6, Tails}) = \underbrace{\frac{1}{6}}_{P(6)} \times \underbrace{\frac{1}{2}}_{P(T)} = \boxed{\frac{1}{12}}$$

2 events

$$\text{Ex: } P(\text{Landing on 2, then 4, then 6}) = \underbrace{\frac{1}{6} \times \frac{1}{6} \times \frac{1}{6}}_{P(2) P(4) P(6)} = \frac{1}{216}$$

3 events